

REMARKS

Claims 1-32 are pending. Claims 1, 17, 21, 25 and 29 have been amended.

Claim 21 is objected to because of informalities. Claim 21 has been amended to address the Examiner's objection.

Claims 1, 17, 25 and 29 have been amended. Support for these amendments can be found in the specification on, for example, pages 12-13. No new matter has been added.

Rejection of Claims under 35 U.S.C. § 102/103

Claims 1, 3, 9, and 14 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Woodgate et al., U.S. Patent No. 6,008,484 (Woodgate). Claims 2, 4-7, 11, and 12 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Official Notice. Claim 13 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Official Notice, and further in view of Iwata et al., U.S. Patent 5,982,342 (Iwata). Claim 8 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Iwata. Claims 10, 16-18, 22, 23, 25-27, 29, and 32 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Burger, U.S. Patent 5,973,844. Claims 20, 28, and 31 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Burger and further in view of Iwata. Claims 19, 21, and 30 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Burger, and further in view of Ashihara et al., U.S. Patent 5,883,739 (Ashihara). Claim 24 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Woodgate in view of Burger, and further in view of Official Notice. The applicant respectfully traverses in part these rejections.

Woodgate neither teaches nor suggests an apparatus for displaying a three-dimensional image including:

each lenslet pixel module corresponding with and operable to produce a complete 3D pixel of the three-dimensional image,

as required by independent claim 1 as amended and generally required by independent claims 17, 25, and 29 as amended. In particular, the applicant respectfully submits that

Woodgate neither teaches nor suggests that each lenslet pixel module be operable to produce a complete "3D pixel" as the term is used by the applicant in the specification.

Accordingly, the applicant respectfully submits that independent claims 1, 17, 25, and 29 are allowable over Woodgate, Official Notice, Iwata, Burger, and Ashihara, taken alone or in combination. Claims 2-16 depend from independent claim 1 and are allowable for at least this reason. Claims 18-28 depend from independent claim 17 and are allowable for at least this reason. Claims 26-28 depend from independent claim 25 and are allowable for at least this reason. Claims 30-32 depend from independent claim 29 and are allowable for at least this reason.

In view of the amendments and remarks set forth herein, the application is believed to be in condition for allowance and a notice to that effect is solicited. Nonetheless, should any issues remain that might be subject to resolution through a telephonic interview, the examiner is requested to telephone the undersigned.

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Respectfully submitted,



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Appendix: Version with Markings to Show Changes MadeIn the Claims

Please substitute the following claims for the pending claims with the same number:

1 1. (Amended) Apparatus for displaying a three-dimensional image, comprising:
2 a plurality of lenslet pixel modules with each module defined in part by a
3 respective lenslet;
4 each lenslet pixel module corresponding with and operable to produce a complete
5 3D pixel [a pixel] of the three-dimensional image;
6 a plurality of two-dimensional moving image sources associated with and forming
7 a portion of the lenslet pixel modules; and
8 the lenslet pixel modules cooperating with each other to form a projector array for
9 displaying the three-dimensional image.

1 17. (Amended) A system for presenting a scalable, autostereoscopic image
2 comprising:
3 a plurality of lenslet pixel modules with each module defined in part by a
4 respective lenslet;
5 each lenslet pixel module corresponding with and operable to produce a complete
6 3D pixel [a 3D pixel] of the autostereoscopic image;
7 a plurality of two-dimensional image sources associated with and forming a
8 portion of each lenslet pixel module; and
9 at least one computer processing unit providing an input to at least one of the
10 plurality of two-dimensional image sources.

1 21. (Amended) The system of Claim 17 further comprising:
2 a plurality of first computer processing units having at least one video output
3 channel to supply video images to the [high resolution]two-dimensional
4 image sources;

5 a two-dimensional image source coupled with one of the first computer
6 processing units; and
7 a master computer processing unit coupled with and supplying data to the first
8 computer processing units.

1 25. (Amended) A method for presenting an autostereoscopic image comprising:
2 combining a plurality of high resolution two-dimensional digital image sources
3 with a plurality of lenslet pixel modules with each pixel module having a
4 respective fly's eye lenslet and being operable to produce a complete 3D
5 pixel; and
6 projecting light from each digital image source through the respective lenslet
7 pixel module to form the autostereoscopic image from a plurality of 3D
8 pixels.

1 29. (Amended) A lenslet pixel module for projecting light and sensing light
2 comprising:
3 a two-dimensional image source operably coupled with a respective lenslet
4 whereby a portion of a selected two-dimensional image may be projected
5 from the lenslet to form [a portion]at least one complete 3D pixel of an
6 autostereoscopic image;
7 a sensor disposed within and forming a portion of the lenslet pixel module; and
8 the sensor operably coupled with a fly's eye lenslet to allow the sensor to detect at
9 least one real object in front of the lenslet pixel module.